

LIST OF PRIOR ART CITED BY
APPLICANT

(PTO-1449)

ATTY. DOCKET NO.
ATI-0025APPLN. SERIAL NO.
10/648,781APPLICANT(S)
Youssef L. BENNANI, James T. ANDERSON,
Jianmin WANG, and Anthony TING

CUSTOMER NO. 34610

FILING DATE
August 27, 2003GROUP
1614

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	*PATENT NO.	*ISSUE DATE	*INVENTOR NAME	CLASS	SUBCLASS	FILING DATE
SH	3,772,327	11/13/73	BROSSI et al.	260	340.5	07/27/71
	3,946,041	03/23/76	BROSSI et al.	260	340.5	08/08/73
	6,376,516 B1	04/23/02	JOSHI et al.	514	320	09/26/00
	3,905,981	09/16/75	OLOFSON et al.	260	285	10/12/73
	2,946,797	07/26/60	RUDNER	260	286	08/18/58
SH	4,087,426	05/02/78	SHAMMA et al.	260	286 R	08/16/76

U.S. PATENT APPLICATION PUBLICATIONS

	*PATENT APPLN. PUB. NO.	*PUB. DATE	*APPLICANT	CLASS	SUBCLASS	
SH	2003/0091651 A1	05/15/03	XU	424	539	10/30/01
SH	2002/0137762 A1	09/26/02	JOSHI et al.	514	291	01/25/02

U.S. PATENT APPLICATIONS

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FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No
SH	207 324 B	03/29/93	HUNGARY			Part	
	59044382	12/03/84	JAPAN			Abst	
	62-149677	07/03/87	JAPAN			Abst	
SH	61-229880	10/14/86	JAPAN			Abst	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Publisher, Place of Publication, Etc.)

SH	Kerekes and Bognar, "Synthese des Gnoscopins (DL-Narcotin)," J. Prakt. Chem., 1971, Vol. 313, pp. 923-928.
	Hope and Robinson, "Synthetical Experiments in the Group of the isoQuinoline Alkaloids. Part IV. The Synthesis of β -Gnoscopine," J. Chem. Soc., 1914, Vol. 105, pp. 2085-2104.
SH	Battersby and Hirst, "Concerning the Biosynthesis of Narcotine," Tetrahedron Letters, 1965, No. 11, pp. 669-673.

EXAMINER

Sh Huang

DATE CONSIDERED

8/26/04

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LIST OF PRIOR ART CITED BY APPLICANT (PTO-1449) <div style="position: absolute; top: 10px; right: 10px; border: 1px solid black; border-radius: 50%; padding: 5px; text-align: center;"> O I P E FEB 03 2004 PATENT & TRADEMARK OFFICE </div>				ATTY. DOCKET NO. ATI-0025		APPLN. SERIAL NO. 10/648,781	
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<i>SH</i>	4,704,458	11/03/87	TAKEDA et al.	546	90	01/23/85	
<i>SH</i>	4,684,732	08/04/87	TANIGUCHI et al.	546	144	03/05/85	
<i>SH</i>	5,013,556	05/07/91	WOODLE et al.	424	450	10/20/89	
U.S. PATENT APPLICATION PUBLICATIONS							
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FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation Yes No	
<i>SH</i>	61-152686	07/11/86	JAPAN			Abst	
	61-186387	08/20/86	JAPAN			Abst	
	61-233685	10/17/86	JAPAN			Abst	
	62-096491	05/02/87	JAPAN			Abst	
	61-165327	07/26/86	JAPAN			Abst	
	0 152 090	08/21/85	EPO				
	0 161 499	11/21/85	EPO				
<i>SH</i>	0 201 359	11/12/86	EPO				
OTHER ART (Including Author, Title, Date, Pertinent Pages, Publisher, Place of Publication, Etc.)							
<i>SH</i>	Schmidhammer and Klötzer, "New Reactions of Phthalidoisoquinoline Alkaloids," Arch. Pharm. (Weinheim), 1978, Vol. 311, pp. 664-671.						
<i>SH</i>	Möhrle and Grimm, "Structure of the Products of Reactions of Cotarnine and Hydrastinine with CH Acidic Compounds and Acetic Anhydride," Arch. Pharm. (Weinheim), 1986, Vol. 319, pp. 1018-1023.						
<i>SH</i>	Prior and Wiegrebe, "Borane Adducts of Narcotine, Hydrastine and Their Reduction Products," Arch. Pharm. (Weinheim), 1983, Vol. 316, pp. 737-746.						
<i>SH</i>	Hope and Robinson, Proc. Chem. Soc., 1910, Vol. 26, pp. 228-231.						
EXAMINER <i>SH</i>				DATE CONSIDERED <i>8/26/07</i>			

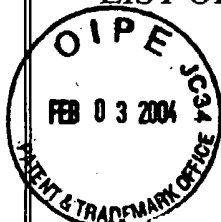
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EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation Yes No	
<i>SM</i>	WO 99/08528	02/25/99	PCT				
<i> </i>	WO 00/00599	01/06/00	PCT				
<i> </i>	WO 83/00486	02/17/83	PCT				
<i> </i>	WO 00/64446	11/02/00	PCT				
<i>SM</i>	873,935	08/02/61	UNITED KINGDOM				
OTHER ART (Including Author, Title, Date, Pertinent Pages, Publisher, Place of Publication, Etc.)							
<i>SM</i>	S. Safe et al., "Metameconine as a Model Compound in the Study of Aromatic Reactions," Canadian Jour. of Chemistry, December 1962, Vol. 40, No. 12, pp. 2402-2408.						
<i> </i>	Israilov et al., "Structure of Kroftaline," Chemistry of Natural Compounds, 1980, Vol. 6, pp. 851-852.						
<i> </i>	J. Marton et al., "Synthesis and Conformational Studies on some Nitro- and Aminophthalideisoquinoline Derivatives," Chemical Monthly, March 1993, Vol. 124, No. 3, pp. 291-297.						
<i> </i>	J. Kardos et al., "Inhibition of [³ H]GABA Binding to Rat Brain Synaptic Membranes by Bicuculline Related Alkaloids," Biochemical Pharmacology, 1984, Vol. 33, No. 22, pp. 3537-3545.						
<i>SM</i>	Moniot and Shamma, "The Methylene Signature of Reduced Isoquinolines: A PMR Structural Correlation," Heterocycles, 1978, Vol. 9, No. 2, pp. 145-152.						
EXAMINER <i>E. Huang</i>				DATE CONSIDERED <i>8/26/04</i>			

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						Yes	No


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JH	S. Iida et al., "Metabolic Fate of (\pm)-(R*)-7-Amino-4,5,6-triethoxy-3-[(R*)-5,6,7,8-tetrahydro-4-methoxy-6-methyl-1, 3-dioxolo [4,5-g] isoquinolin-5-yl] phthalide (Tritoqualine) (1) Metabolism of Tritoqualine in Rats, Mice and Dogs," Pharmacometrics, 1986, Vol. 31, No. 4, pp. 767-784.
	D. Seebach et al., "Diastereoselective Hydroxyalkylations in Position 1 of Tetrahydroisoquinolines and Synthesis of Aporphine, Protoberberine, and Phthalide Alkaloids," Helvetica Chimica Acta, 1987, Vol. 70, pp. 1357-1379.
	P. Kerekes et al., "Synthesis of Phthalideisoquinoline Alkaloids by Means of Reissert Compounds, I" Acta Chimica, 1978, Vol. 97, No. 3, pp. 353-357.
	K. Iwasa et al., "Conformations of Phthalideisoquinoline Salts and N-Oxides," Journal of Natural Products, Nov-Dec. 1987, Vol. 50, No. 6, pp. 1083-1088.
	G.T. Tan et al., "HIV-1 and HIV-2 Reverse Transcriptases: A Comparative Study of Sensitivity to Inhibition by Selected Natural Products," May 29, 1992, Vol. 185, No. 1, pp. 370-378.
	Ray and Robinson, "The Nitration of m-Meconine," J. Chem. Soc., 1925, Vol. 127, pp. 1618-1623.
JH	Perkin and Robinson, "Synthesis and Resolution of Gnoscopine (dl-Narcotine)," J. Chem. Soc., 1911, Vol. 99, pp. 775-792.


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<i>SH</i>	Hope and Robinson, "Synthetical Experiments in the Group of the isoQuinoline Alkaloids. Part I. Anhydrocotarninephthalide," J. Chem. Soc., 1911, Vol. 99, pp. 1153-1169.						
	K. Orito et al., "Synthesis of Phthalideisoquinoline and Protoberberine Alkaloids and Indolo[2,1- α] isoquinolines in a Divergent Route Involving Palladium(0)-Catalyzed Carbonylation," J. Org. Chem., 1999, Vol. 64, pp. 6583-6596.						
	Wolfe and Buchwald, "Palladium-Catalyzed Amination of Aryl Triflates," J. Org. Chem., 1997, Vol. 62, pp. 1264-1267.						
	J.P. Wolfe et al., "Simple, Efficient Catalyst System for the Palladium-Catalyzed Amination of Aryl Chlorides, Bromides, and Triflates," J. Org. Chem., 2000, Vol. 65, pp. 1158-1174.						
	Moniot and Shamma, "Conversion of Berberine into Phthalideisoquinolines," J. Org. Chem., 1979, Vol. 44, No. 24, pp. 4337-4342.						
	Elango and Shamma, "A Pyrolytic Route to the Phthalide-Isoquinolines," J. Org. Chem., 1983, Vol. 48, pp. 4879-4881.						
<i>SH</i>	T. Shono et al., "Novel Zinc-Promoted Alkylation of Iminium Salts. New Synthesis of Benzylisoquinoline, Phthalidylisoquinoline, and Protoberberine Alkaloids and Related Compounds," J. Org. Chem., 1983, Vol. 48, pp. 1621-1628.						
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Jnt	K. Ye et al., "Opium Alkaloid Noscaphine is an Antitumor Agent that Arrests Metaphase and Induces Apoptosis in Dividing Cells," Proc. Natl. Acad. Sci. USA, February 1998, Vol. 95, No. 4, pp. 1601-1606.						
	Y. Nakagawa et al., "Effect of Tritoqualine on the Proliferation of Interleukin-3 Dependent Cell Line and Sensitive Cells," Japan. J. Pharmacol., November 1987, Vol. 45, No. 3, pp. 417-424.						
	Uhrin and Proksa, "Study of Conformation of α -Narcotine N-Oxide and Related Compounds," Collect. Czech. Chem. Commun., February 1989, Vol. 54, No. 2, pp. 498-505.						
	T. Shono et al., "New Electroreductive Synthesis of Phthalide Alkaloids," Tetrahedron Letters, 1980, Vol. 21, No. 14, pp. 1351-1354.						
	J. Zhou et al., "Brominated Derivatives of Noscaphine Are Potent Microtubule-interfering Agents that Perturb Mitosis and Inhibit Cell Proliferation," Mol. Pharmacol., April 2003, Vol. 63, No. 4, pp. 799-807.						
	J. Molnar et al., "In Vitro Antiproliferative Effects of Tricyclic Psychopharmaceutical Agents and Synergism with Some Resistance Modifiers," Anticancer Research, Jan-Feb 1992, Vol. 12, pp. 273-280.						
	J. Sam et al., "Preparation and Properties of Some Relatives of Noscaphine," Journal of Pharmaceutical Sciences, October 1968, Vol. 57, No. 10, pp. 1755-1759.						
Jnt	S. Aggarwal et al., "Mass Spectral Studies on Aryl-substituted N-carbamoyl/N-thiocarbamoyl Narcotine and Related Compounds," Rapid Commun. Mass Spectrom, April 2002, Vol. 16, pp. 923-928.						
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